

	Document ID	Class	Issue No.	Date	Page	Title
1	US 3579831 A	U	19710525	5	BONE	tissue to grow into and through these openings and to permit blood tissue to escape.
2	US 3729825 A	U	19730501	9	ORAL	
3	US 3849888 A	U	19741126	8	BONE	
4	US 3851393 A	U	19741203	10	ORAL	
5	US 4397634 A	U	19830809	6	Surqic	TITLE - TI (1): Screw-type <u>dental</u> implant anchor
6	US 4531915 A	U	19850730	13	Dental	
7	US 4579531 A	U	19860401	4	Dental	
8	US 4624673 A	U	19861125	7	Device	Brief Summary Text - BSTX (1): This invention relates to a <u>screw-type dental</u> implant anchoring means comprising an externally-threaded, preferably <u>self-anchoring</u> , body portion. The implant has internal means for engaging means for inserting the implant into an opening formed in bone tissue to receive the implant. This internal means is, preferably, a wrench-engaging surface. In preferred embodiments, the body portion is joined to a top portion having an unthreaded exterior wall. Preferably, the internal means for implant insertion is inside that top portion, but can alternatively be inside the body portion. The top or head portion is open, preferably chamfered at its upper end, and in registration with an internal, threaded shaft. This shaft is inside the body portion of the anchor, and extends from a plane just below the head portion downwardly a substantial distance inside the body portion of the anchor.
9	US 4713003 A	U	19871215	9	Fixtur	
10	US 4744755 A	U	19880517	9	Dental	
11	US 4744754 A	U	19880517	9	Dental	
12	US 4826434 A	U	19890502	5	Dental	
13	US 4904187 A	U	19900227	6	Dental	
14	US 4934935 A	U	19900619	13	Dental	
15	US 4938694 A	U	19900703	5	Screw	
16	US 4960381 A	U	19901003	8	Screw	
17	US 4966599 A	U	19901030	21	Anatom	
18	US 5040982 A	U	19910820	9	Dental	
19	US 5052930 A	U	19911001	11	Dental	
20	US 5064425 A	U	19911112	6	Anchor	
21	US 5088926 A	U	19920218	4	Implan	
22	US 5100323 A	U	19920331	9	Dental	
23	US 5116225 A	U	19920526	14	Angula	
24	US 5199873 A	U	19930406	9	Dental	
25	US 5209659 A	U	19930511	9	Method	Brief Summary Text - BSTX (5): The anchoring means is preferably made of commercially-pure <u>titanium</u> , and preferably has an outside thread diameter of not more than about 4 millimeters. The anchoring means preferably has a length in the range of about 5 to about 20 millimeters in preferred embodiments.
26	US 5259398 A	U	19931109	14	Method	
27	US 5263996 A	U	19931123		Dental	
28	US 5302126 A	U	19940412		Dental	
29	US 5312256 A	U	19940517		Dental	
30	US 5312254 A	U	19940517		Steril	
31	PT 101033 A	D	19940531		Titan	Drawing Description Text - DRTX (2): FIG. 1 is a perspective view of one embodiment of the <u>dental</u> implant anchor of this invention;
32	US 5366374 A	U	19941122		Dental	
33	US 5542847 A	U	19960806		Method	
34	US 5558618 A	U	19960924		Semi-	
35	US 5562670 A	U	19961008		Holdin	
36	US 5571017 A	U	19961105		Select	Drawing Description Text - DRTX (5): FIG. 4 is a perspective view of another <u>dental</u> implant anchor embodiment that includes internal means for engaging means for inserting the implant into bone tissue; and
37	US 5593410 A	U	19970114		Screw	
38	US 5642996 A	U	19970701		Endoss	
39	US 5727943 A	U	19980317		Self-t	
40	US RE35784 E	U	19980505		Submer	
41	US 5752830 A	U	19980519		Remova	
42	US 5769852 A	U	19980623		Implan	
43	US 5772437 A	U	19980630		Secur	Drawing Description Text - DRTX (6): FIG. 5 shows an elevational view, in cross-section, of another <u>dental</u> implant anchor embodiment.
44	US 5816813 A	U	19981006		Implan	
45	US 5816812 A	U	19981006		Dental	
46	US 5842865 A	U	19981201		Self-t	
47	US 5885079 A	U	19990323		Select	
48	US 5897319 A	U	19990427		Self-t	Detailed Description Text - DETX (5): Internally-threaded passage 8 inside implant 1 can receive a variety of cementable and threaded adaptors already in use, such as threaded copings, threaded screws, and cementable <u>dental</u> prostheses. See, for example, the
49	US 5938444 A	U	19990817		Fixtur	
50	US 5951287 A	U	19990914		Dental	
51	US 5984681 A	U	19991116		Dental	
52	US 6015023 A	U	20000110		Implan	

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11	US 4744754 A	U	19880517	9	Denta
12	US 4826434 A	U	19890502	5	Denta
13	US 4904187 A	U	19900227	6	Denta
14	US 4934935 A	U	19900619	13	Denta
15	US 4938694 A	U	19900703	5	Screw
16	US 4960381 A	U	19901002	9	Screw
17	US 4966599 A	U	19901030	21	Anator
18	US 5040982 A	U	19910820	9	Denta
19	US 5052930 A	U	19911001	11	Denta
20	US 5064425 A	U	19911112	6	Anchor
21	US 5088926 A	U	19920218	4	Implan
22	US 5100323 A	U	19920331	9	Denta
23	US 5116225 A	U	19920526	14	Anquid
24	US 5199873 A	U	19930406	9	Denta
25	US 5209659 A	U	19930511	9	Method
26	US 5259398 A	U	19931109	14	Method
27	US 5263996 A	U	19931123		Denta
28	US 5302126 A	U	19940412		Denta
29	US 5312256 A	U	19940517		Denta
30	US 5312254 A	U	19940517		Steri
31	PT 101033 A	D	19940531		Titan
32	US 5366374 A	U	19941122		Denta
33	US 5542847 A	U	19960806		Method
34	US 5558618 A	U	19960924		Semi-
35	US 5562670 A	U	19961008		Holdin
36	US 5571017 A	U	19961105		Select
37	US 5593410 A	U	19970114		Screw
38	US 5642996 A	U	19970701		Endoss
39	US 5727943 A	U	19980317		Self-t
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41	US 5752830 A	U	19980519		Remova
42	US 5769852 A	U	19980623		Implan
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44	US 5816813 A	U	19981006		Implan
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46	US 5842865 A	U	19981201		Self-t
47	US 5885079 A	U	19990323		Select
48	US 5897319 A	U	19990427		Self-t
49	US 5938444 A	U	19990817		Fixtur
50	US 5951287 A	U	19990914		Denta
51	US 5984681 A	U	19991116		Denta
52	US 6015037 A	U	20000110		Denta

connecting an artificial tooth or dental bridge to the jaws which comprises an implant portion or screw for connection to the bone, the screw having a head and a downwardly tapered shaft, an abutment portion for connection to the prosthesis, and connecting means for connecting the implant and the abutment. Preferably, the components of the invention are machined from titanium alloy.

#### Brief Summary Text - BSTX (5):

The specific problem of integrating teeth within the oral cavity by means other than superficial attachment has been addressed previously. One result is the proposal of Branemark as exemplified in Int. J. Oral Sur. 1981:10:387-416. In this proposal a generally cylindrical device is described which includes a number of connectable parts the majority of which are machined from substantially pure titanium.

#### Brief Summary Text - BSTX (9):

To accomplish this objective, the present invention provides a device for connecting a prosthesis to bone which comprises an implant portion for integration with the bone, the implant being constituted by a screw having a shaft and a head, the shaft being tapered downwardly from the head; an abutment portion for integration with the prosthesis; and connecting means for coupling the implant portion with the abutment portion. Preferably, the implant and abutment of the present invention are machined from titanium alloy for example, an alloy including 6% aluminium and 4% vanadium.

#### Detailed Description Text - DETX (2):

Referring now to FIG. 1, there is illustrated a device 10 comprising an implant 20, an abutment 40, both of which are machined from a titanium alloy and a connecting screw 60, which is machined from stainless steel.

#### Detailed Description Text - DETX (3):

Implant 20 has a tapered body 22 bearing exterior self-tapping screw threads 24 and terminates in a head 26. The upper surface 28 of head 26 defines a generally elliptical recess 30 located centrally thereon. Implant 20 defines a longitudinal, centrally located bore 32 extending from recess 30 into but not through the tapered body 22. Bore 32 is screw-threaded to receive connecting screw 60. Preferably, the pitch of the threads 24 is about 16 turns per inch.

#### Detailed Description Text - DETX (7):

The preceding description of the operative components and procedure by which the abutment and implant are connected has, for the sake of clarity, disregarded mention of any specific application of the device. In the following description, the device is described with particular reference to its utility as a means of coupling a dental prosthesis, i.e. a single artificial tooth or a dental bridge to the jaws.